1696.

Apollo Anglicanus,

THE

ENGLISH APOLLO:

Assisting

All Persons in the Right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful.

A twofold Kalendar, *viz. Julian* or *English*, *Gregorian* or *Forain* Computations, more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon; and also her Southing, Exactly calculated for every day. Of general use for most men.

Being *Bissextile* or *Leap Year.*

To which is added the Moons application to the fixed Stars: With the Calculation of the Eclipses: also Rules and Tables for the measuring of Timber: with many other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees 41 Minutes, exactly suiting all our middle Counties of *England*, and without sensible error for whole Kingdom.

By RICHARD SAUNDER

Student in the Physical and Mathematical Sciences.

LONDON Printed by M. CLARK, for the Company of STATIONERS. 1696.

The *Julian* or Old Account used in *Engl.*	1696	The *Gregorian* or New Stile used beyond Sea.
6	The Golden Number.	6
G	The Dominical Letter	A
6	The Epact.	1
February 23	Shrove-Sunday	March 4
May 21	Aſcenſion-Day.	May 31
May 31	Whit-Sunday.	June 10
November 29	Advent-Sunday.	December 2

A Table of the four Terms, and their Returns, &c.

Hilary-Term begins *January* 23. ends *February* 12.

Eſſoin-days.	*Except.*	*Ret. Brev.*	*Appear.*
Octab. Hillar. Jan. 20	January 21	Jan. 22	Jan. 23
Quind. Hillar. Jan. 27	January 28	Jan. 29	Jan. 30
Craſtin. Purif. Feb. 3	February 4	Febr. 5	Febr. 6
Octab. Purif. Feb. 9	February 10	Febr. 11	Febr. 12

Eaſter Term begins *April* 29. ends *May* 28.

Quind. Paſch. April 27	April 28	April 28	April 29
Tres Paſch. May 4	May 5	May 5	May 6
Menſ. Paſch. May 11	May 12	May 12	May 13
Quinq. Paſch. May 18	May 19	May 19	May 20
Craſt. Aſcenſ. May 22	May 23	May 23	May 25

Trinity Term begins *June* 12. ends *July* 1.

Craſt. Trin. June 8	June 9	June 10	June 12
Octab. Trin. June 15	June 16	June 16	June 17
Quind. Trin. June 22	June 23	June 23	June 25
Tres. Trin. June 29	June 30	June 30	July 1

Michaelmas Term begins *Octob.* 23. ends *Novemb.* 28.

Tres Mich. Octob. 20	Octob. 21	Octob. 22	October 23
Menſ. Mich. Octob. 28	Octob. 29	Octob. 29	October 30
Craſt. Anim. Nov. 3	Novemb. 4	Novemb. 5	Novemb. 6
Craſt. Mart. Nov. 12	Novemb. 13	Novemb. 13	Novemb. 14
Octab. Mart. Nov. 19	Novemb. 20	Novemb. 20	Novemb. 21
Quind. Mart. Nov. 26	Novemb. 27	Novemb. 27	Novemb. 28

A Table of the KINGS and QUEENS of *England* since the Conquest

Kings and Queens names.	Born Anno	*Began to reign.*	Reigned Y.	Reigned M	Since their Reign ended.	Buried at
William 1	1023	1066, Oct. 14	20	11	1087, Septem. 9	Caen Ne
William 2	1057	1087, Sep. 9	12	11	1100, August 2	Winchel
Henry 1	1068	1100, Aug. 1	35	4	1135, Decem. 1	Reding
Stephen	1105	1135, Dec. 2	18	11	1154, Octob. 25	Feversh.
The Saxon Line reſtor'd.						
Henry 2	1132	1154, Oct. 25	34	9	1189, July 6	Fountevr
Richard 1	1152	1189, July 6	9	9	1199, April 6	Fontevr
John	1165	1199, April 6	17	7	1216, Octob. 19	Worceſt r
Henry 3	1207	1216, Oct. 9	56	1	1272, Nov. 16	Weſtmin
Edward 1	1239	1272, No. 16	34	8	1307, July 7	Weſtmin.
Edward 2	1283	1307, July 7	19	7	1327, Jan. 25	Gloceſter
Edward 3	1312	1327, Jan. 25	51	5	1379, June 21	Weſtmin.
Richard 2	1366	1377, Jun. 21	22	2	1399, Sept. 29	Weſtmin.
The Line of Lancaſter.						
Henry 4	1367	1399, Sep. 29	13	6	1413, Mar. 20	Canterb.
Henry 5	1386	1413, Mar. 20	9	5	1422, Aug. 31	Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	1461, Mar. 4	Windſor
The Line of York.						
Edward 4	1442	1461, Mar. 4	22	1[illegible]	1483, April 9	Windſor
Edward 5	1471	1483, Apr. 9	0	2[illegible]	1483, June 25	Not kno.
Richard 3	1446	1483, Jun. 22	2	1[illegible]	1485, Aug. 22	Leiceſt.
The Families United.						
Henry 7	1455	1485, Aug. 22	23	10	1509, April 21	Weſtmin
Henry 8	1491	1509, Apr. 22	37	10	1547, Jan. 28	Windſor
Edward 6	1537	1547, Jan. 28	6	5	1553, July 6	Weſtmin.
Qu. Mary	1518	1553, July 6	5	4	1558, Nov. 17	Weſtmin.
Qu. Elizab.	1533	1558, No. 17	44	4	1603, March 23	Weſtmin.
The Union of the two Kingdoms.						
James 1	1566	1602, Ma. 24	22	6	1677, March 27	Weſtmin.
Charles 1	1600	1625, Ma. 27	23	11	1647, Janu. 30	Windſor
Charles 2	1630	1648, Jan. 30	36	0	1711, Febr. 6	Weſtmin.
James 2	1633	1684, Feb. 6	1	0	1697, Febry. 13	
William & Mary	1650 / 1662	1689, Feb. 1	Whom God grant long to Reign. Who died *Dec.* 28. 1694.			

You here may ſee a Race of Monarchs great,
Each for a time did fill the Royal Seat;
Wherein now is our Great and Valiant King,
Whoſe Fame throughout all parts of th' World doth ring:
Pray God of it he long may be poſſeſt,
His Kingdoms have Proſperity, Peace and Reſt. *Omnia poteſtas à Deo*

A Table of the exact time of the Moons Southing in hours and minutes every day for the first six Months of this Year, 1696.

Days	Jan.		Febr.		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M
1	6	A. 0	7	A. 4	6	A. 45	8	A. 2	8	A. 15	8	A. 56
2	6	48	7	52	7	34	8	46	9	0	9	48
3	7	36	8	40	8	23	9	30	9	44	10	41
4	8	24	9	28	9	12	10	12	10	28	11	38
5	9	12	10	16	9	56	10	55	11	13	12	35
6	10	2	11	4	10	40	11	38	12	0	0	M. 35
7	10	52	11	52	11	23	12	21	0	M. 0	1	33
8	11	42	12	36	12	5	0	M. 21	0	56	2	33
9	12	30	0	M. 36	0	M. 5	1	10	1	52	3	30
10	0	M. 30	1	18	0	48	2	6	2	48	4	23
11	1	16	2	0	1	32	3	0	3	45	5	15
12	2	0	2	44	2	17	3	56	4	42	6	4
13	2	41	3	28	3	5	4	55	5	37	6	55
14	3	22	4	14	3	56	5	53	6	30	7	47
15	4	3	5	2	4	54	6	50	7	20	8	38
16	4	47	5	56	5	52	7	42	8	12	9	29
17	5	31	6	56	6	53	8	34	9	4	10	20
18	6	19	7	58	7	53	9	26	9	56	11	11
19	7	12	9	0	8	50	10	18	10	48	12	2
20	8	10	10	0	9	44	11	10	11	40	12	53
21	9	12	10	56	10	37	12	2	12	33	1	A. 43
22	10	14	11	55	11	30	12	A. 56	1	A. 26	2	28
23	11	16	12	50	12	24	1	A. 52	2	18	3	10
24	12	18	1	A. 40	1	A. 18	2	45	3	8	3	53
25	1	A. 13	2	28	2	11	3	38	3	55	4	35
26	2	5	3	16	3	3	4	30	4	38	5	18
27	2	56	4	8	3	55	5	16	5	21	6	2
28	3	46	5	2	4	48	6	2	6	4	6	48
29	4	36	5	56	5	39	6	46	6	46	7	30
30	5	26			6	28	7	30	7	28	8	17
31	6	15			7	17			8	9		

A Table of the exact time of the Moon's coming to South in hours and minutes, every day for the last six Months of this Year 1696.

Days	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	9	A. 12	10	A. 56	12	33	0	M. 14	1	M. 40	2	M. 6
2	10	10	11	56	0	M. 33	1	8	2	36	2	56
3	11	14	12	54	1	27	2	2	3	31	3	45
4	12	16	0	M. 54	2	22	2	58	4	26	4	28
5		M. 16	1	50	3	16	3	56	5	15	5	9
6	1	16	2	44	4	10	4	51	6	0	5	50
7	2	16	3	36	5	4	5	45	6	42	6	32
8	3	12	4	28	5	56	6	35	7	24	7	14
9	4	4	5	18	6	46	7	21	8	5	7	55
10	4	55	6	6	7	34	8	5	8	48	8	38
11	5	45	6	54	8	22	8	48	9	33	9	26
12	6	32	7	43	9	8	9	30	10	18	10	18
13	7	20	8	32	9	54	10	12	11	3	11	13
14	8	8	9	20	10	38	10	54	11	50	12	8
15	8	56	10	12	11	22	11	36	12	39	1	A. 5
16	9	46	11	4	12	5	12	18	1	A. 34	2	3
17	10	37	11	52	12	48	1	A. 6	2	30	3	0
18	11	28	12	34	1	A. 34	1	58	3	25	3	59
19	12	20	1	A. 15	2	22	2	51	4	20	4	42
20	1	A. 5	1	56	3	10	3	45	5	16	5	30
21	1	53	2	39	4	0	4	41	6	8	6	17
22	2	34	3	23	4	52	5	35	7	0	7	8
23	3	14	4	10	5	46	6	29	7	51	8	0
24	3	56	5	0	6	42	7	23	8	44	8	54
25	4	38	5	50	7	38	8	17	9	36	9	49
26	5	20	6	44	8	34	9	11	10	28	10	44
27	6	10	7	42	9	30	10	5	11	21	11	38
28	7	4	8	41	10	25	10	58	12	14	12	32
29	8	2	9	40	11	20	11	52	0	M. 14	0	M. 32
30	9	0	10	40	12	14	12	45	1	10	1	20
31	9	56	11	39			0	M. 45			2	16

To find the time of High Water in most Coasts of England.

FIrst seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for there the South and North Moons make a High-water: But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many Hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to the South, gives you the time of High-water for the place required

A Tide-Table, with the names of the Havens

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Rankins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plimouth, Hull,	6	0
Bristol, Lanion, Foulness,	6	45
Milford, Bridgwater, North-coast,	7	30
Portland, Peterport, Hartslew,	8	51
Dover, Yarmouth, Harwich, Dublin	10	30
Calais, Rye, Winchelsey, Calskot.	11	15

Example.

The 22. of *May* this Year, it is required to know the time of High-water at *London*. By the Table of the moons southing over against the 22. of *May*, I find the moon south at 1 H. 26. M. afternoon: then in the preceding Tide-Table against *London*, I find 3. h. 0. m. which added to 1 h. 26 m. makes 4 h. 26 m. being the time of High water at *London*, the 22. of *May* in the Afternoon. So of any other.

Note, That the Tide floweth considerably more at the new and full of the moon than at the first and last Quarters; as also the Latitude of the moon and winds may alter it an hour sooner or later.

Directions

Directions for the subsequent Diary or Almanack.

IN the first Column to the left hand, on the left-hand Page, you have the Numerical Figures of the days of the Month.

In the second Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Asterisms and Constellations may be easily known to an ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Rising and Setting of the Moon, with respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets, with the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar, and Saints days.

In the fifth Column you have a discourse of Vicissitude, Interchange, Returns, &c.

The sixth, seventh, and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the Sun.

On the top of the left hand Page is set the New and Full Moons, with the First and Last Quarters.

On the top of the right hand Page is set the Rising, Southing and Setting of the Planets.

First Quarter the 1: day at noon:
Full Moon the 9 day, half an hour aft. 8 morning.
Last Quarter the 17 day, at 11 morning.
New Moon the 24 day at 4 in the morn.
First quarter the 30 day at midnight.

1	a	New-years day	aries	22	0	M.	14	Moons Setting. cloudy and close
2	b	☽ n. Aur. P. And.	taur.	6	1		24	weather with
3	c	☽ n. Pleiades	taur.	18	2		32	froſt is expected
4	d	☽ n. Aldeba.	gem.	0	3		36	at the beginning
5	e	☽ n. Alhaiot	gem.	13	4		36	with ſome little
6	f	Epiphany	gem.	25	5		26	△ ☉ ☿ ſnow,
7	g	☽ n. cau. m. ſyrius	canc.	7	5		16	△ ♂ ♀ then
8	a	☽ n. cau. m. pror.	canc.	19	7		2	□ ♂ ♀ yield-
9	b	☽ n. Aſellos	leo	1	Full			ing with miſty,
10	c	Sol in Aquarius	leo	13	8	A.		foggy weather
11	d	☽ n. cor Leon.	leo	25	7		10	for ſome days,
12	e	1 Sun. paſt Eph.	virgo	7	8		14	♂ ♄ ♀ follow'd
13	f	♄ ☌ ♍ 19	virgo	19	9		20	with rain; alſo
14	g	☿ ♍ 7 R	libr.	1	10		28	windy & ſtormy
15	a	♂ ♍ 27 R	libr.	13	11		36	weather is expe-
16	b	♀ ♐ 19	libra	25	12		44	△ ☌ ♀ cted a-
17	c	☉ ♑ 27	ſcorp.	8	0	M.	44	bout this time,
18	d	☽ n. luc. col.	ſcorp.	21	1		52	yet moderate in
19	e	2 Sun. paſt Epip	ſagit.	5	3		0	reſpect of cold,
20	f	☽ n. deſ. hu. Op.	ſagit.	15	4		6	the ſeaſon being
21	g	S. Agnes	capr.	4	5		6	conſidered and
22	a	☽ n. caud. Vult.	capr.	16	5		56	□ ☌ ♀ about
23	b	Term begins	aqua.	4	6		36	the new moon
24	c	☽ n. ſin. hu. n.	aqua.	19	New			Noon ſetting. miſts or driſling
25	d	Converſ. S. Pa.	piſc.	4	7	A.	2	rain, then winds
26	e	3 Sun. paſt Epip	piſc.	19	8		20	clearing the ſky
27	f	☽ n. Aſgenib	aries	4	9		4	produceth froſty
28	g	☽ n. v. nt. Cet.	aries	18	11		0	weather to the
29	a	☽ n. pr. ✶ Ariet	taur.	1	2		20	end.
30	b	K. Cha. I. Mart	taur.	14	0	M.	20	
31	c	☽ n. Pleiades	taur.	27	1		30	△ ♂ ♀.

Saturn a th. end emerges from Sun Beams,
Jupiter rises betwixt 9 an 10 at night, and is South betwixt 3 and 4 in the morning.
Mars r.s b. fo e *Jupiter* an hour and h. l.
Venus r.s b. w..n 4 and 5 morning
Mercury ar th. end is combust.

English Accom.	Forei. Accompt.	Rom. Kalenda.	Rom. Sts. Days								
1	1	D	Hyginus	Jucunda viciſſitudo rerum.	1	♄	7	☽	52
2	12	E	Satyrius		2		5		55
	13	F	Hillarius.	HEre I ſhall uſe the	3		4		56
4	14	G	Felix	words of an hono-	4		2	3	58
5	15	A	2 paſt Epip.	rable and learned Philo-	5		1		59
6	16	b	Maurus	ſopher, ſpeaking of the	5	7	59	4	1
7	17	C	Anthon	Viciſſitude of things.	7	7	5	4	3
8	18	D	Pontian	Solomon ſaith there is	8		57		3
9	19	e	Fab. Seb.	no new thing upon the	9		55		5
10	20	f	Edward	Earth; ſo that as Plato	10		53		7
11	21	G	Agnes	had an imagination that	11		52		8
12	22	A	2 paſt Epip	all knowledge was but a	12		50		10
13	23	b	Emerent	remembrance, ſo Solo-	13		49		11
14	24	c	Timothy	mon giveth his ſentence	14		47		13
15	25	d		that all novelty is but ob-	15	7	46	4	14
16	26	e	Policarp	livion. There is an ab-	16		44		16
17	27	f	Chryſoſto.	ſtruſe Aſtrologer that ſays	17		43		17
18	28	G	Car. Mag.	if it were not for two	18		41		19
19	29	A	4 aſt. Epiph.	things that are conſtant	19		39		21
20	30	b	Adelgund	(one is that the fixed	20	7	38	4	22
21	31	C	Saturn	Stars ever ſtand at the	21		36		24
22	Febr. 1	D	Bridget	ſame diſtance one from	22		34		26
23	2	e	Purif. Mary	another, and never come	23		33		27
24	3	f	Blaſe	nearer together; nor go	24		31		29
25	4	G	Gilbert	farther aſunder; the o-	25		29		31
26	5	A	5 aſt. Epiph	ther that the Diurnal	26	7	27	4	33
27	6	b	Dorothy	motion perpetually keep-	27		25		35
28	7	c	Zachary	eth time) no individual	28		23		37
29	8	D	Wil. B.Y.	would laſt one moment;	29		21		39
30	9	e	Apollon.	certain it is that the	30	7	19		41
31	10	f	Scholaſtica	Matter is in a perpetual	31		17		

February hath xxix. days

Full Moon the 8 day, at 6 in the Morning.
Laſt quarter the 16 day at 1 in the morning.
New Moon the 22 day, 30 m. aft. 2 in the aftern.
First quarter the 29 day, at 5 at night.

Mon. Day.	Week Day.	Feſtival & Saints days, with the ☽s application to the noted fix'd ſtars.	The ☽s place in zodiack at Noon			The ☽s riſing fro. the full to the change, & ſetting fr. the cha. to the F.		The mutu. Aſp. of the Plan. with the var. conſt. of air & cha. of wea.
1	♄	☽ n. Aldebaran	gem.	10	2	A.	30	☌ ☉ ☿ fair and
2	☾	Purificat. Mary	gem.	22	3		26	froſty at the be-
3	♃	☽ n. Syrius	canc.	4	4		16	ginning of the
4	♂	☽ n. C. ſtor Ap.	canc.	16	5		6	month, then fol-
5	☉	☽ n. procyon	canc.	28	5		30	lows windy wea-
6	♀	☽ n. Aſſellos	leo	10	5		56	ther which bring
7	☿	☽ n. Cor. leon	leo	22	6		18	☌ ☌ ☿ ſnow or
8	♄	Sol in piſces	virgo	4	Full		●	cold rain, and ſo
9	☾	Septuageſima	virg.	16	7	A.	4	continue windy
10	♃	☽ n. Vindemiat	virg.	28	8		14	and moiſt, then
11	♂	☽ n. Spic. Vir.	libra	10	9		24	☌ ☉ ☌ follow a
12	☉	Term ends	libra	22	10		32	ſharp froſty air
13	♀	☽ n. laux. Auſt.	ſcorp.	5	11		40	for ſome days, &
14	☿	Valentine	ſcorp.	17	12		48	very ſeaſonable
15	♄	☽ n. Cor. Scorp.	ſagit.	1	9	M.	48	but about the 17
16	☾	Sexageſima	ſagit.	14	1		54	☌ ♄ ☿ or 18
17	♃	♄ ♑ 21	ſagit.	28	2		51	△ ♄ ☿ windy
18	♂	♆ ♒ 24 R.	capri.	12	3		43	✶ ♄ ☿ and tur-
19	☉	♂ ♑ 29 R.	capr.	28	4		25	☌ ♆ ☿ bulent
20	♀	☿ ♑ 28	aqua.	13	5		3	weather is expe-
21	☿	♀ ♓ 28	aqua.	28	5		33	△ ♄ ♆ cted and
22	♄	☽ n. Marchab.	piſc.	13	New		●	✶ ☿ ☿ ſo conti-
23	☾	Quinquageſima	piſc.	28	7	A.	22	nues till after the
24	♃	S. Matthias	aries	12	8		38	New moon, then
25	♂	Shrove-Tueſday	aries	27	9		54	cold, cloſe and
26	☉	Aſh-Wedneſday	taur.	10	11		10	foggy weather is
27	♀	☽ n. Pleiades	taur.	23	12		22	expected to the
28	☿	Aldebaran	gem.	6	0	M.	22	✶ ☿ ☿ end.
29	♄	☽ n. Alhaior	gem.	19	1		24	

Moons Setting. 1 Moons Rising

FEBRUARY, 1696.

Saturn rises about break of day.
Venus rises at the same time.
Jupiter rises about 7 at night, and is South about 1 in the morning.
Mars is south at midnight
Mercury sets after the Sun and at the end may be seen

English Account.	Foreign Account.	Roman Kalendar.	Roman Saints days.	*Feriæ statæ & concept.*	*The Vicissitude of Things.*	A.M.	D.	H.	M.
1	11	g	Solther		*perpetual flux, and never at a stay. The great winding-sheets that bury all things in oblivion are two, Deluges and Earthquakes: as for Conflagrations and Droughts, they do not merely dis-people, but destroy. Phaeton's Car went but a day, and the three years Drought in the time of* Elias *was but particular, and left People alive; as for the great burning by Lightnings, which are often in the West-Indies, they are but narrow; but in the other two Destructions by Deluge and Earthquake, it is further to be noted, that the remnant of people which happen to be reserved, are commonly ignorant and mountainous People, that can give no account of the times past; so that the Oblivion is all one as if men*	1	7	10	4	44
2	12	A	6 aft. Epiph.			2		14		48
3	13	b	Eustathius			3		18		4
4	14	c	*Valentine*			4		1(		5(
5	15	d	Faustin			5		8		5(
6	16	e	Juliana			6		6		5(
7	17	f	Constance			7		4		5(
8	18	g	Sabina			8		2		5(
9	19	A	Septuages.			9	7	(		(
10	20	b	Mildred			1(	6	58	5	3
11	21	c	Sept. V. M.			11		56		4
12	22	d	Peters Ch.			12		54		(
13	23	e	Policarp.			13		52		8
14	24	f	Intercal.			14		49		11
15	25	g	S. Matthias			15		47		13
16	26	A	Sexagesim.			16	6	45	5	15
17	27	b	Augustine			17		43		17
18	2	c	Simeon			18		41		19
19	29	d	Oswald			19		39		21
20	Marc	e	David			2(		37		23
21	2	f	Chad			21		35		25
22	3	g	Maurice			22	6	33	5	27
23	4	A	Quinquag.			23		31		29
24	5	b	Eusebius			24		29		31
25	6	c	Victor			25		2(		34
26	7	d	Perpetua			26		24		36
27	8	e	Cyprian			27		22		38
28	9	f	Prudence			28		2(		40
29	1(	g	Michæas			29	6	18		42

Full Moon the 8 day, at 9 at night.
Laſt quarter the 16 day, at 11 in the morn.
New Moon the 23 day, 50 m. paſt 11 night.
First quarter the 30 day, at 10 in the morning.

1	D	Quadrageſima	canc.	12	M. 14	Moons Seting	♂ ☉ ♅	high
2	E	Ch'd	canc.	13	0		winds and ſtor-	
3	F	☽ n. canis minor	canc.	25	3		✶ ☉ ♄	my
4	G	Ember-Week	leo	7	50		wea her at the	
5	A	☽ n. Au. in c. Leo	leo	19	20		beginning fol-	
6	B	☽ n. cor leonis	virg.	1	44		lowed with plen-	
7	C	☽ n. luc. inter ♌	virg.	13	8		ty of rain or	
8	D	2 Sund. in Lent	virgo	25	Full ●	1	ſnow, and ſo	
9	E	Sol in Aries	libra	7	7 A. 20		continues windy	
10	F	☽ n. Spic. Virg.	libra	19	8 30		and moiſt till af-	
11	G	☽ n. l nx. Auſtr.	ſcorp.	2	9 38	☽'s Riſing	ter the fullmoon	
12	A	☽ n. lanx. Bor.	ſcorp.	14	10 45		♂ ♂ ♀	then
13	B	☽ n. fin. man. Op.	ſcorp	27	11 48		more ſeaſonable	
14	C	☽ n. Cor. Leonis	ſagit.	10	12 50		♂ ☉ ☿	with
15	D	3 Sund. in Lent	ſagit.	24	0 M. 50		ſharp froſty air	
16	E	♄ ♈ 25	capri.	8	1 45		about the 13 or	
17	F	♅ ♏ 20 R	capr.	21	2 30		14 days, and tis	
18	G	♂ ♌ 22	aqua.	6	3 12		now hoped we	
19	A	♀ ♓	aqua.	21	3 40		may have ſeaſo-	
20	B	☿ ♈ R.	piſc.	6	4 4		nable weather;	
21	C	Benedict	piſc.	21	4 28		and that it may	
22	D	Midlent-Sunday	aries	6	New ●		continue withou	
23	E	☽ n. prim. ✶ ♈	aries	20	7 A. 43		much alteration	
24	F	☽ n. au. Pe. And.	taur.	5	9 0	Moons Riſing	till after the new	
25	G	Annunt. B. Mar.	taur.	19	10 18		moon, then tis	
26	A	☽ n. Aldebaran	gem.	2	11 26		feared we may	
27	B	☽ n. Alhaiot	gem.	15	12 23		✶ ♄ ☿	have
28	C	☽ n. dex. hu. Au.	gem.	27	0 M. 23		wind ſtormy and	
29	D	4 Sund. in Lent	canc.	10	1 8		turbulent wea-	
30	E	☽ n. canis minor.	canc.	22	1 45		ther for the moſt	
31	F	☽ n. Aſellus	leo	4	2 13		part to the end	

MARCH, 1696.

Saturn rises a little before day.
Jupiter at the beginning is South at midnight, and at the end is South at 10 at night.
Mars is South be wixt 10 and 11 at night.
Venus rise before the Sun, *Mercury* in the middle of the month is combust, at the end he rises before the Sun.

English Accom.	Fore in Accom.	Rom. Kalendar.	Rom. Sts. Days.						
1	11	G	Quadrages.	*none had been left. If*		6	6	5	44
2	12	a	Gregorius	*you consider well of the*	2		14		46
3	13	b	Euphrasia	*People of the* West-Indies	3		12		48
4	14	c	Theodore	*it is very probable that*	4		10		50
5	15	d	Agapite M.	*they are a newer or youn-*	5		8		52
6	16	e	Cyriacus	*ger People than the Peo-*	6		6		54
7	17	f	Gertrude	*ple of the old World, and*	7		4		56
8	18	G	Reminiscer.	*it is much more likely,*	8	6	2	5	58
9	19	a	Joseph	*that the Destruction that*	9	6	0	6	0
10	20	b	Cuthbert	*hath heretofore been*	10	5	58	5	2
11	21	c	Benedict	*there, was not by Earth-*	11	5	56		4
12	22	d	Aphrodos.	*quakes, as the Egyptian*	12		54		6
13	3	e	Theodore	*Priest told* Solon *concern-*	13		52		8
14	4	f	Quirinus	*ing the Island* Atlantis,	14		50		10
15	2	G	Oculi	Annunt. B. V. M.	15		48		12
16	26	a	Castulus	*that it was swallowed by*	16		46		14
17	27	b	Merrian	*an Earthquake; but ra-*	17		44		16
18	28	c	Rupert	*ther that it was desolat-*	18		42		18
19	29	d	Eustace	*ed by a particular De-*	19	5	40	6	20
20	30	e	Guido	*luge: for they have such*	20		38		22
21	31	f	Balbina	*pouring Rivers, that the*	21		36		24
2	April		Lætare	*Rivers of* Asia, *and* Af-	22		34		26
23	2	a	Mary Egypt	rick, *and* Europe *are but*	23		32		28
24	3	b	Richard	*as brooks to them; likewise their*	24		30		30
25	4	c	Ambrose	*Andes or Mountains are far high-*	25		28		32
26	5	d	Vincent	*er than those with us; whereby it*	26		26		34
27	6	e	Sixtus	*seems that the Remnants of Gene-*	27	5	24	6	36
28	7	f	Cœlestin	*rations of Men were in such a*	28		22		38
29		G	Judica	*particular Deluge saved. As*	29		20		40
30	9	a	Albinus	*for the observation that Machiave-*	30		18		42
31		b	Leo. Pap.	*hath, that the usy of Sects extinguishes the jealoury of things,*		5	16	6	44

mem

Full Moon the 7 day, at 1 in the afternoon.
Laſt quarter the 14 day, at 6 in the afternoon.
New Moon the 21 day, at 11 in the morning.
Firſt quarter the 29 day, at 4 in the morning.

1	F	☽ n. Au. C. leo	leo	15	2	A. 38			△ ☉ ♂ cold
2	a	☽ n. Cor leonis	leo	27	3				♂ ♄ ♀ windy
3	b	☽ n. luc. T. Leo	virg.	9	3	20			and cloſe we ther
4	c	☽ n. C u. leonis	virgo	21	3	40			□ ☉ ♄ ſet the be
5	D	Palm Sunday	libr.	3	4				ginning, and a-
6	e	☽ n. Spic. Virg.	libr.	15	4	20			bout this time
7	f	☽ n. lau. Auſt	libra	28	Full				rainy with wind
8	g	☽ n. Laux. Bor.	ſcor.	11	3	A. 3			and ſtorms of hail
9	a	Sol in Taurus	ſcorp.	24	9	48			are expected, then
10	b	☽ n. Cor ſcorp.	ſagit.	8	10	56			✶ ♄ ♀ more ſea-
11	c	☽ n. dex. hu. Op.	ſagit.	20	11	0			ſonable for ſome
12	D	Eaſter day	capr.	4	2	4			days, with ſome
13	e	☽ n. Caud vult	capri.	18	M.	10			miſts or driſling
14	f	♄ ♍ 26	aqua.	2	1	20			rain about the
15	g	♀ ♏ 7 ℞.	aqua.	17	1	50			or 6, yet ſeaſo
16	a	♂ ♌ 25	piſce.	1	2	20			nable and pleaſant
17	b	☿ ♈ 5	piſc.	15	2	40			and about the 18
18	c	☿ ♈ 12	piſc.	29	3	8			or 19 days plenty
19	D	Low Sunday	aries	4	3	30			of ſhowers are ex-
20	e	☽ n. firſt ✶ Ar	aries	18	3	52			pected, then fol-
21	f	☽ n Can. Med.	taur.	1	New				lowethwind clear-
22	g	☽ n. Pleiades	taur.	17	☽ A.	8			ing the ſky, there-
23	a	St. George	gem.	10	10	0			by producing
24	b	☽ n. Dex. hu. Au.	gem.	23	0	48			more warm and
25	c	S. Mark	canc.	5	11	3			pleaſant weather
26	D	☉ Sun. paſt Eaſt.	anc.	18	12	14			△ ☉ ♆ towards
27	e	☽ n. Aſelles	leo	2	☽ M.	4			the end.
28	f	☽ n Au. C. Le.	leo	15	0	50			□ ♄ ☿
29	g	Term begins	leo	27	1	1			
30	a	☽ n lu. in Te. ♌	virg.	9	1	30			△ ♂ ☿

Moons ſetting

Moons riſing

Moons ſetting

Saturn riseth betwixt 1 and 2 in the morning.
Jupiter sets betwixt 3 and 4 morning.
Mars sets about 3 in morning.
Venus riseth about an hour before the Sun.
Mercury rises first *Venus* and before the Sun.

Eng. Accom	Forein. Accom	Rom. Kalendar	Rom. St. days.								
1	11	C	Apollin	traducing Gregory the	1	5	15	7	4
2	12	D	July Bish.	Great, that he did all he	2		1		46
3	13	E	Justinus	could to extinguish all	3		10		50
4	14	F	Tiburtius	Heathen Antiquities. I	4		8		52
5	15	G	Palm Sun.	do not find that those zeal	5		6		54
6	16	a	Isidorus	do any great effects nor	6		4		56
7	17	b	Osmond	last long, as it appeared	7		2		58
8	18	c	Eluther	in the Succession of Sabi-	8	5	0	7	0
9	19	d	Apnage	nian, who did revive the	9	4	58	7	2
10	20	e	Ananias	former Antiquities.	10		56		4
11	21	f	Adelarius	The Vicissitude or mu-	11		54		6
12	22	G	Pascha	tations in the superiour	12		52		8
13	23	a		Globe, are no fit matter	13		50		10
14	24	b	Wilfride	for this present Argument	14		48		12
15	25	c	S. Mark	it may be Plato's Great	15	4	46	7	14
16	26	d	Cletus	Year, if the World should	16		44		16
17	27	e	Anastasius	last so long, would have	17		42		18
18	28	f	Vitalis	some effect, not in renew-	18		41		19
19	29	G	Quasimod.	ing the state of like indi-	19		39		21
20	30	a	Josua	viduals (for that is the	20		37		23
21	May		S. Phil. & Ja.	Opinion of those that conceive the	21	4	36	7	24
22	2	c	Athanasius	celestial bodies have more accurate	22		34		26
23	3	D	Inv. Crucis	influences upon these things below	23		33		27
24	4	E	Florian	than indeed they have) but in gro-	24		31		29
25	5	f	Gothard	Comets out of question have like	25	4	30	7	30
26	6	G	Misericord.	wise effects over the gross and mas	26		29		32
27	7	a	Juvenal	of things, but they are rather gaz	27		28		34
28	8	b	Stanislaus	ed upon in their journey, than	28		27		35
29	9	c	Ephrem.	wisely observed in their effects; e	29		25		37
30	10	D	Pancratius	specially in their respective effect.	30	4	24	7	39

that is, what kind of Comet for magnitude, colour, &c. produceth what kind of effects.

May hath xxxi. days

Full Moon the 6 day, near midnight.
Last quarter the 13 day, at 11 at night.
New Moon the 20 day, at 10 night.
First quarter the 28 day, at 8 night.

1	b	Philip & Jacob	virg.	17	1	56	Moons Setting.	warm weather
2	c	☽ n. Vindemiat.	virg.	29	2	16		with some drop-
3	D	3 Sun. past East.	libra	12	2	36		ing showers be-
4	e	☽ n Spic. Virg.	libra	24	2	56		□ ♄ ♀ gin the
5	f	☽ n. laux. Aust.	scorp.	7	3	16		△ ☉ ♄ month.
6	g	☾ n. lanx. Borea.	scorp.	20	Full	●		Moon Eclipse.
7	a	☽ n. Cor. Scorp.	sagit.	4	8 A.	44		about the full
8	b	☽ n. Dex. h. Op.	sagit.	17	9	35		moon show are
9	c	☽ n. Sin. ma. ♒	capri.	1	10	22		△ ♃ ☿ expect-
10	D	4 Sun. past East.	capr.	15	11	5		ed, afterward an
11	e	Sol in Gemini	capr.	29	11	45	Moons Rising.	increase of heat,
12	f	♄ ♍ 26 R	aqua.	13	12	20		△ ♂ ♀ with
13	g	♃ ♍ 17 D	aqua.	27	0 M.	0		△ ♄ ☿ some
14	a	♂ ♍ 5	pisces	11	0	48		misty mornings,
15	b	♀ ♉ 8	pisc.	25	1	10		and probably
16	c	☿ ♏ 1	aries	9	1	30		□ ☉ ♂ some
17	D	5 Sun. past East	aries	23	1	54		thunder about
18	e	☽ n. Au. pes A.	taur.	7	2	20		this time; now
19	f	☽ n. Pleiades	taur.	21	2	52		□ ♂ ☿ windy
20	g	☽ n. Aldebaran	gem.	5	New	●		☌ ☉ ☿ weather
21	a	Ascensio Dom.	gem.	18	9 A.	0		is expected with
22	b	☽ n. dex. hu Au.	canc.	1	9	32		some showers of
23	c	☽ n. Castor Ap.	canc.	3	10	2	Moons setting.	△ ♃ ♀ rain,
24	D	6 Sun. past East.	canc.	26	10	32		□ ♃ ☿ and o
25	e	Term ends	leo	8	11	0		therwhiles some
26	f	☽ n. Cor leonis	leo	20	11	56		hot and sultry
27	g	☽ n. l c ter leo.	virg.	1	11	57		gleams intermixt
28	a	☽ n. Cau. leo.	virg.	13	12	16		
29	b	K. Cha. II. N. R.	virg.	25	0 M	16		□ ☉ ♃. △ ♄ ♀
30	c	☽ n. Vindemiat	libra	7	0	40		with cooling
31	D	Whitsunday	libr.	20	1	2		gales of wind.

Saturn *rises about Midnight.*
Jupiter *sets betwixt* 1 *and* 2 *in the Morning.*
Mars *sets about* 1 *in the Morning.*
Venus *rises a little before the Sun.*
Mercury *at the beginning rises before the Sun, towards the end he is combust.*

English Account.	Forein Account.	Rom. Kalendar.	Rom. Saints days.									
1	11	e	Christian	There is a Toy which I	1	4	19	7	41
2	12	f	Nereus	have heard, and I would not	2		17		43
3	13	G	Jubilate	have it given over, but wai-	3		16		44
4	14	a	Boniface	ted upon a little. They say	4		14		46
5	15	b	Sophia	it is observed in the Low	5		12		48
6	16	c	Isidorus	Countries (I know not in	6		10		50
7	17	d	Jodocus	what part) That every five	7		9		51
8	18	e	Venant	and thirty years, the same	8	4	8	7	52
9	19	f	Sarah	kind and suit of years and	9		6		54
10	20	G	Cantate	weather comes about again,	10		5		55
11	21	a	Helena	as great frosts, great wet,	11		3		57
12	22	b	Adelmus	great droughts, warm Win-	12		2		58
13	23	c	Defider.	ters, Summers with little	13		1	7	59
14	24	d	Esther	heat, and the like; and they	14	4	0	8	0
15	25	e	Urbanus	call it the Prime. It is a	15	3	59	8	1
16	26	f	Edward	thing I do rather mention,	16	3	58		2
17	27	G	Roga. Sun.	because computing back	17		57		3
18	28	a	Wilhelm.	wards, I have found some	18		55		5
19	29	b	Maximin.	concurrence.	19		54		6
20	30	c	Fœlix	But to leave these points	20		53		7
21	31	d	Ascen. Dom.	of Nature, and come to	21		52		8
22	June		Nicomed	Men. The greatest vicissi-	22		51		9
23	2	f	Marcell.	tude amongst Men, is, The	23	3	50	8	10
24	3	G	Exaudi	vicissitude of Sects and Reli-	24		49		11
25	4	a	Petrochius	gions; For these Orbs rule	25		48		12
26	5	b	Boniface	in Men's minds most: The	26		47		13
27	6	c	Claudius	true Religion is built upon a	27		46		14
28	7	d	Paul Ep.	Rock; the rest are tost up-	28		45		15
29	8	e	Medardus	on the waves of time. To	29		45		15
30	9	f	Barnim.	speak therefore of the Cau-	30		44		16
31	10	G	Pentecost	ses	31	3	44	8	16

June hath xxx Days

Full Moon the 5th day, at 10 in the morning.
Last Quarter the 12th day, at 4 in the morning.
New Moon the 19th day, at 11 in the morning.
First Quarter the 27th day, at 2 in the afternoon.

							☽'s ſetting. Moons riſing.
1	e	☽ n. lanx Auſtr.	ſcorp. 2	1 M	24		Fair and hot weather at the beginning and probably ſome Thunder about the full ✱ ♂ ☿ Moon, with ſome ſhowers ✱ ♃ ☿. of Rain about the 9th. day; then follows ♂ ♄ ☿. windy ☌ ♃ ♂. weather Cloudy and Rain like; which being cleared off, fair weather, and hot is expected, till □ ♃ ☿. the new Moon, which pro △ ♄ ♂. duceth □ ☌ ☿ ſhowery weather, which is followed with heat and probably Thunder therewith. But at the end of the Month windy weather is expected.
2	f	☽ n. lanx. Bor.	ſcorp. 15	1	48		
3	g	Ember Week	ſcorp. 29	2	15		
4	a	☽ n. Cap. Oph.	ſagit. 12	2	45		
5	b	☽ n. Sin. Manæ	ſagit. 26	Full	●		
6	c	☽ n. Luc. Lyræ.	capric. 11	9 A	8		
7	D	Trinity Sunday	capric. 25	9	46		
8	e	♄. ♑. 25. R.	aqua. 10	10	20		
9	f	♃. ♏. 19.	aqua. 24	10	46		
10	g	Sol in Cancer.	piſces 8	11	10		
11	a	♂. ♏. 18.	piſces 22	11	35		
12	b	Term begins	aries 06	12	0		
13	c	☿. ♊. 13.	aries 20	0 M	0		
14	D	1 paſt Trinity	taur. 3	0	27		
15	e	☿. ♋. 27.	taur. 17	0	56		
16	f	☽ n. Aldebaran.	gem. 0	1	28		
17	g	☽ n. Alhajot	gem. 13	2	4		
18	a	☽ n. dex. hu. Aur.	gem. 26	2	48		
19	b	☽ n. canis major	canc. 9	New	●		
20	c	☽ n. canis mino	canc. 21	8 A	42		
21	D	2 paſt Trinity	leo 4	9	2		
22	e	☽ n. auſ in cap. le	leo 16	9	22		
23	f	☽ n. cor leonis	leo 28	9	42		
24	g	S. John Baptiſt	virgo 10	10	04		
25	a	☽ n. caud leonis	virg. 23	10	26		
26	b	☽ n. vindemia	libra 3	10	47		
27	c	☽ n. ſpica virg.	libra 15	11	09		
28	D	3 paſt Trinity	libra 27	11	33		
29	e	S. Peter	ſcorp. 10	12	2		
30	f	☽ n. cor. ſcorpion	ſcorp. 23	0 M.	2		

Moons ſetting.

JUNE, 1696.

Saturn *rises about* 10 *at Night.*
Jupiter *and* Mars *are near together, and set between* 11 *and* 12 *at Night.*
Venus *rises a little before the Sun.*
Mercury *follows the Sun, and sets a little after him.*

English Account.	Forein Account.	Roman Kalendar.	Ro. Saint day									
1	11	a	S. Barnabas	ſes of new Sects, and to give	1	3	44	8	16
2	12	b	Anthony	ſome Counſel concerning	2		43		17
3	13	c	Cyrillus	them, as far as the weakneſs	3		43		17
4	14	d	Baſilius	of humane judgment can give	4		42		18
5	15	e	Vitus, &c.	ſtay to ſo great Revolutions.	5		42		18
6	16	f	Rulandus	When the Religion formerly	6		42		18
7	17	G	Trinity S	received, is rent by diſcords;	7		42		18
8	18	a	Homer	and when the holineſs of the	8	3	41	8	19
9	19	b	Marcellin.	Profeſſors of Religion is de-	9		41		19
10	20	c	Edward R.	cayed, and full of ſcandal, and	10		41		19
11	21	d	Corp. Chr.	withal the Times be ſtupid,	11	3	41	8	19
12	22	e	Alban	ignorant, and barbarous, you	12		41		19
13	23	f	Jo. & Paul	may doubt the ſpringing up	13		41		19
14	24	G	St. Jo. Bapt.	of a new Sect, if then alſo	14		41		19
15	25	a	Elogius	there ſhould ariſe any extra-	15		42		18
16	26	b	Leo Ep.	vagant and ſtrange Spirit to	16		42		18
17	27	c	Creſcens	make himſelf Author there-	17		42		18
18	28	d	Leo P.	of: All which points held	18		42		18
19	29	e	St. Peter	when *Mahomet* publiſhed his	19	3	43	8	17
20	30	f	Con. Paul	Law. If a new Sect have not	20		43		17
21	July		2 paſt Trin	two Properties fear it not; for	21		44		16
22	2	a	Viſit. V. M.	it will not ſpread. The one is,	22		44		16
23	3	b	Kenelm	The ſupplanting, or the op-	23		44		16
24	4	c	Huldrich	poſing of Authority eſtabli-	24		45		15
25	5	d	Zoa. Virg.	ſhed: For nothing is more	25		45		15
26	6	e	Hector	popular than that. The other	26	3	46	8	14
27	7	f	Demetrius	is the giving licence to Plea	27		47		13
28	8	G	3 paſt Trin	ſures and Voluptuouſneſs. For,	28		48		12
29	9	a	Cyrillus	as far ſpeculative Hereſies,	29		49		11
30	10	b	Sept. Frat.	(ſuch as were in ancient	30	3	50	8	10

● Full Moon the 4th day, at 6 in the afternoon.
☾ Last Quarter the 11th day, at 10 in the morning.
● New Moon the 19th day, at 1 in the morning.
☾ First Quarter the 27th day, at 4 in the morning.

1	g	Term ends	♐	7	0	M	38	Showery weather is
2	a	☽ n. dex. hu. Oph.	♐	20	1		30	expected ☌ ☉ ♅. to
3	b	☽ n. Luc. Lyræ	♑	5	2		34	continue ♂ ☉ ♄. till
4	c	☽ n. cauda vult.	♑	19	Full		●	after △ ♄ ♃. the full
5	D	4 past Trinity	♒	4	8	A	12	Moon; and now misty,
6	e	☽ n. fin. hum. ♒	♒	19	8		36	foggy, cloudy, and close
7	f	☽ n. Fomahaut	♓	4	9		0	weather, which being
8	g	☽ n. Marchab. P.	♓	19	9		22	cleared, fair weather is
9	a	☽ n. Algenib.	♈	4	9		43	expected for some
10	b	☽ n. vent. Ceti	♈	17	10		4	days: But about the
11	c	☽ n. prim ✱ Ar.	♉	1	10		34	13th day ♂ ♄ ☿.
12	D	5 past Trinity	♉	14	11		12	showers are expected,
13	e	Sol in Leo	♉	27	11		52	which are followed
14	f	☽ n. Aldebaran.	♊	10	12		36	with ✱ ♃ ♀. hot wea-
15	g	St. Swithin	♊	23	0	M	36	ther, till after the ✱
16	a	☽ n. Can. Maj. Sy.	♋	5	1		30	☌ ☿. New Moon.
17	b	☽ n. Can. min. P.	♋	18	2		38	Then brisk winds ♂
18	c	☽ n. Asellus	♌	0	3		46	☉ ☿. bringing show-
19	D	6 past Trinity.	♌	12	New		●	ers of Rain are expe-
20	e	♄ ♍. 22. R.	♌	24	8	A	0	cted, which being past,
21	f	♃. ♍. 25.	♍	6	8		20	it is hoped we may ♂
22	g	♂. ♎. 12.	♍	18	8		40	☌ ☿. have fair and
23	a	♀. ♌. 02.	♎	0	9		0	seasonable wea- ✱ ☉
24	b	☿. ♌. 07. R.	♎	12	9		20	♂. ther, for the most
25	c	St. James	♎	24	9		40	part, to the end of
26	D	7 past Trinity	♏	6	10		0	the Month.
27	e	☽ n. lanx. Boreal.	♏	18	10		26	
28	f	☽ n. cor. Scorp	♐	1	11		2	
29	g	☽ n. dex. hu. Oph	♐	15	11		56	
30	a	☽ n. fin. Man. ♒	♐	29	1		5	
31	b	☽ n. Cauda vult	♑	13	1	M	5	

Moons rising. — Moons setting.

JULY, 1696.

Saturn *is south about Midnight.*
Jupiter *and* Mars *set about* 10 *at Night.*
Venus *at the end is under the Suns Beams.*
Mercury *at the beginning sets after the Sun, and toward the end he is Combust.*

English Account.	Forein Account.	Roman Kalendar.	Rom. Saints days.						
1	11	c	Benedict	times, the *Arrians*, and now	1	3	51	0	9
2	12	d	Henricus	the *Socinians*) tho they work	2		52		8
3	13	e	Margaret	mightily upon men's wits, yet	3		53		7
4	14	f	Bonavent	they do not produce any	4		54		6
5	15	♋	4 past Trin	great alterations in States,	5		55		5
6	16	a	Hillarius	except it be by the help of	6		56		4
7	17	b	Alexius	civil Occasions. There be	7		58		2
8	18	c	Arnolph	three manner of Plantations	8	3	59		1
9	19	d	Ruffinus	of new Sects, by the power of	9	4	0	8	0
10	20	e	Elias	Signs and Miracles, by the e-	10	4	1	7	59
11	21	f	Daniel	loquence and wisdom of	11		3		57
12	22	♋	5 past Trin.	Speech and Perswasion, and by	12		5		55
13	23	a	Apollin.	the Sword: as for Martyrdoms	13		6		54
14	24	b	Christiana	I reckon them amongst Mi-	14		7		53
15	25	c	St. James	racles, because they seem to	15		9		51
16	26	d	Anna	exceed the strength of human	16		10		50
17	27	e	Martha	Nature: And I may do the	17		11		49
18	28	f	Panthol.	like of superlative and admi-	18		13		47
19	29	♋	6 past Trin.	rable Holiness of Life. Surely	19		14		46
20	30	a	Abdon	there is no better way to stop	20	4	16	7	44
21	31	b	German	the rising of new Sects and	21		17		43
22	Aug		Lammas	Schisms, than to reform abu-	22		19		41
23	2	d	Stephen	ses, to compound the smaller	23		20		40
24	3	e	Dominic.	differences, to proceed mildly,	24		22		38
25	4	f	Aristarch.	and not with sangninary per-	25		24		36
26	5	♋	7 p. Trin	secutions, and rather to take	26		25		35
27	6	a	Sixtus	off the principal Authors by	27		27		33
28	7	b	Afra	winning and advancing them,	28		29		31
29	8	c	Ladislaus	than to enrage them by vio	29		31		29
30	9	d	Julian	lence and bitterness.	30	4	33		27
31	10	e	Lawrence		31		35		25

● Full Moon the 3d day, at 2 in the morning.
☾ Last Quarter the 9th day, at 6 in the afternoon.
● New Moon the 17th day, at 4 in the afternoon.
☽ First Quarter the 25th day, at 5 in the afternoon.

1	t	*Lammas*	capr.	28	2	M	24	
2	W	☽ past Trinity	aqua.	18	3		50	
3	e	☽ n. Fornah int.	aqua.	28	Full		☾	
4	f	☽ n. Marchab.	pisces	13	7	A	36	
5	g	☽ n. caud. ceti	pisces	28	8		2	
6	a	☽ n. vent. ceti	aries	13	8		28	
7	b	☽ n prim. ✶ A.	aries	27	8		54	
8	c	☽ n. Aust. P. An.	taur.	11	9		26	
9	D	☽ past Trinity	taur.	25	10		6	
10	e	St Laurence	gem.	7	10		50	
11	f	☽ n. Alhaiot	gem.	20	11		38	
12	g	☌ ☿ in Virgo	canc.	2	12		32	
13	a	☽ n. Castor & P.	canc.	15	0	M	32	
14	b	☽ n. Procyon	canc.	27	1		34	
15	c	☽ n. Asellus	leo	9	2		44	
16	D	10 past Trinity	leo	20	4		00	
17	e	☽ n. luc. re. Leo.	virgo	2	New		●	
18	f	♄ ♍. 20. R.	virgo	14	6	A	52	
19	g	♃ ♎. 01.	virgo	27	7		12	
20	a	♂ ♏. 00.	libra	8	7		32	
21	b	☿ ♍. 07.	libra	20	7		52	
22	c	♀ ♌. 28.	scorp.	2	8		16	
23	D	12 past Trinit	scorp.	15	8		42	
24	e	S. Bartholomew	scorp.	27	9		12	
25	f	☽ n. cor. Scorp.	sagit.	10	9		54	
26	g	☽ n. dex. hu. oph.	sagit.	23	10		54	
27	a	☽ n. Luc. Lyræ	capr.	7	12		10	
28	b	☽ n. caud. vult.	capr.	21	0	M	10	
29	c	☽ n. luc. Vulturis	aqua	6	1		30	
30	D	14 past Trinity	aqua	21	2		56	
31	e	☽ n. Dex. Bracch.	pisces	6	4		24	

Moons Rising. I Moons Setting.

The Month begins with drifling Rain, and and now and then ſhowers □ ♄ ♂ till the 6th or 7th days, then 'tis hoped we may have ✶ ♂ ♀ fair and ſeaſonable weather for ſeveral days with now and then ſome briſk winds elſe no great alteration till about the New Moon, which produceth ſhowery weather, then fair weather for a while: But about the ♂ ☉ ♀ ♐ day Rain is expected ✶ ♂ ☿ afterward 'tis hoped it may be moderately fair till the end of the Month which △ ♄ ♀ brings ſome Wind and driſling Rain.

AUGUST, 1696

Saturn *is south betwixt* 9 *and* 10 *at Night.*
Jupiter *sets a little after the Sun.*
Mars *sets between* 8 *and* 9 *at Night.*
Venus *goeth to Combustion.*
Mercury *riseth before the Sun.*

English Account.	Forein Account.	Roman Kalendar	Rom. Saints days.								
1	11	f	Titus	The changes and vicissi-	1	4	37	7	23
2	12	☉	8 past Trin.	tudes in Wars are many; but	2		39		21
3	13	a	Hippolit	chiefly in three things, in the	3		41		19
4	14	b	Eusebius	Seats or Stages of the War;	4		42		18
5	15	c	Assum.V.M	in the Weapons, and in the	5		44		16
6	16	d	Rochus	manner of the Conduct.	6		46		14
7	17	e	Agapietus	Wars in ancient Time seemed	7		48		12
8	18	f	Helena	more to move from East to	8	4	50	7	10
9	19	☉	9 past Trin.	West; For the *Persians, Assyrians, Arabians, Tartars,* (which were the Invaders) were all Eastern People. But East and West, have no certain points of Heaven, and no more have the Wars either from the East or West any certainty of observation. But North and South are fixed, and it hath seldom or never been seen, that the far Southern People have invaded the Northern, but contrariwise Whereby it is manifest, that the Northern Tract of the World is in Nature the more Martial Region; be it in respect of the Stars of that Hemisphere, or of the great Continents that are upon the North, whereas the South	9		52		8
10	20	a	Leonard		10		54		6
11	21	b	Privatus		11		56		4
12	22	c	Timothy		12		58		2
13	23	d	Donatus		13	5	0	7	0
14	24	e	S.Barthol.		14		1	6	59
15	25	f	Ludovic.		15		3	6	57
16	26	☉	10p. Trin.		16		5		55
17	27	a	Gebhard		17		7		53
18	28	b	Augustin		18		8		52
19	29	c	Decol.J. B.		19		10		50
20	30	d	Fœlix		20	5	12	6	48
21	31	e	Paulinus		21		14		46
22	Sept.		Ægidius		22		16		44
23	2	☉	11 p. Trin.		23		18		42
24	3	g	Euphem		24		20		40
25	4	b	Theodosia		25	5	22	6	38
26	5	c	Bertinus		26		24		36
27	6	d	Eugenius		27		26		34
28	7	e	Regina		28		28		32
29	8	f	Nat.V.M.		29		31		29
30	9	☉	12 p. Trin.		30		33		27
31	10	a	Sosthenes		31	5	35	6	25

Full Moon the first day, 30 min. past 8 in the morning.
Last Quarter the 8th day, at 6 in the morning.
New Moon the 16th day, at 9 in the morning.
First Quarter the 24th day, at 4 in the morning.
Full Moon the 30th day, at 6 at night.

1		☽ n. Marchab.	piſces	21	Full				△ ☉ ♄ windy,
2	g	☽ n. Algenib.	aries	6	6	A	36		△ ♄ ☿ cloudy, ♂
3	a	☽ n.pr. ✱ Ariet.	aries	21	7		0		☉ ☿ and ſhowery
4	b	☽ n Auſt.P.An.	taur.	6	7		30	Moons riſing	weather begins the
5	c	☽ n. Pleiades	taur.	20	8		6		Month and continues
6	d	☽ past Trinity	gem.	3	8		48		windy, with now and
7	e	☽ n. Alhaiot	gem.	16	9		38		then ſome ♂ ♀ ☿
8	f	☽ n. dex.hu.	gem.	29	10		35		driſling Rain, for ſe-
9	g	☽ n.can. ma	canc.	12	11		40		♂ ♃ ☿ veral
10	a	☽ n.can. min	canc.	24	12		48		♂ ♃ ♀ days, now
11	b	☽ n. Aſelli.	leo	6	0	M	48		more moderate wea-
12	c	☉ in Libra.	leo	18	1		55		ther for a while. But
13	d	14 past Trinity	virgo	0	3		2		the New Moon produ-
14	e	♄ ☍ 19. D.	virgo	12	4		8		✱ ♄ ♂ ceth Wind
15	f	♃ ♎ 07.	virg.	24	5		15		♂ ☉ ♃ and Ra
16	g	Ember Week	libr.	6	New				□ ♄ ☿ then fair
17	a	♂ ♍ 19.	libra	18	6	A	4		and pleaſant for ſome
18	b	♀ ♐ 13.	ſcorp.	0	6		30	Moons ſetting	days. But about the
19	c	☿ ♎ 19.	ſcorp.	12	6		56		24th day □ ♄ ♀
20	d	15 past Trinity	ſcorp.	24	7		22		expect windy, ſtormy
21	e	St. Matthew	ſagit.	7	7		56		and rough weather
22	f	☽ n.dex hu.Oph.	ſagit.	20	8		50		to begin which holds
23	g	☽ n.luc.Lyræ	capric.	3	10		2		for ſome days; but
24	a	☽ n. caud. vult.	capr.	17	11		20		towards the end more
25	b	☽ n lucid. vult.	aqua.	1	12		40		moderate weather is
26	c	☽ n. ſin.hu. ♒	aqua.	15	0	M	40		expected.
27	d	16 past Trinity	piſces	0	2		3		
28	e	☽ n.Marchab.	piſces	15	3		26		
29	f	St. Michael	aries	0	4		50		
30	g	☽ n. vent. Ceti	aries	15	Full				

Saturn *is south between* 7 *and* 8, *and sets between* 11 *and* 12 *at Night.*
Jupiter *and* Venus *are hid under the Sun Beams.*
Mars *sets between* 7 *and* 8 *at Night.*
Mercury *at the beginning is Combust, at the end he is free from it, and sets after the Sun.*

English Account.	Forein Account.	Roman Kalendar.	Rom. Saints days.								
1	11	b	Maurice	part for ought that is known,	1	5	38	6	22
2	12	c	Maximin.	is almost all Sea; or (which	2		40	6	20
3	13	d	Amantius	is most apparent) of the cold	3		42		18
4	14	e	Exal. Cruc.	of the Northern Parts, which	4		44		16
5	15	f	Nicomed.	is that, which without Aid	5		46		14
6	16	g	13 p. Trin	of Discipline doth make the	6		48		12
7	17	a	Lambert	Bodies hardest and the Cou-	7	5	50	6	10
8	18	b	Vict. & Cor	rages warmest.	8		52		8
9	19	c	Januar.	Upon the breaking and	9		54		6
10	20	d	Eustace	shivering of a great State and	10		56		4
11	21	e	S. Matthew	Empire, you may be sure to	11	5	58		2
12	22	f	Maurice	have Wars; for great Em-	12	6	0	6	0
13	23	g	14 p. Trin	pires while they stand, do	13	6	2	5	58
14	24	a	Rupert	enervate and destroy the for-	14		4		56
15	25	b	Cleophas	ces of the Natives, which	15		6		54
16	26	c	Cyprian	they have subdued, resting	16		8		52
17	27	d	Judith	upon their own protecting	17		10		50
18	28	e	Wenceslа.	Forces; and then when they	18		12		48
19	29	f	S. Michael	fail also, all goes to ruin, and	19		14		46
20	30	g	15 p. Trin	they become a Prey. So was	20	6	16	5	44
21	Octo.		Remigius	it in the decay of the *Roman*	21		18		42
22	2	b	Leodegar	Empire, and likewise in the	22		20		40
23	3	c	Candidus	Empire of *Almaine*, after	23		22		38
24	4	d	Franciscus	*Charles* the Great, every Bird	24		24		36
25	5	e	Apollin.	taking a Feather, and were	25		26		34
26	6	f	Fides	not unlike to befall to *Spain*	26		28		32
27	7	g	16 p. Trin	if it should break. The great	27	6	30	5	30
28	8	a	Pelagia	Accessions and Unions of	28		32		28
29	9	b	Dionysius	Kingdoms do likewise stir up	29		34		26
30	10	c	Gideon	Wars. For where a State	30		35		25

grows

October hath xxxi Days.

☾ Last Quarter the 7th day, at 9 at night.
● New Moon the 16th day, at 2 in the morning.
☽ First Quarter the 23th day at noon.
○ Full moon the 30th day, at 4 in the morning.

1	a	☽n.pr. ✱ Ariet.	taur.	0	5	A	45	Moons Rising.	Windy □ ☉ ♄
2	b	☽n.caud.Ariet.	taur.	14	6		23		weather with some
3	c	☽n. Pleiades	taur.	28	7		5		showers at the begin-
4	d	17 past Trinity	gem.	12	7		50		ning, then follows sea-
5	e	☽n.dex.hu aur.	gem.	25	8		40		sonable and good
6	f	☽n.can.maj.syr.	canc.	8	9		40		weather with misty
7	g	☽n.can.min.Pr.	canc.	21	10		50		mornings, and so
8	a	☽ n. Asellus	leo	3	12		0		✱ ♄ ♀ continues
9	b	☽n.aust.in c.leo	leo	15	0	M	0		for some days: But
10	c	☽ n. cor leonis	leo	27	1		2		about the 14th or
11	d	18 past Trinity	virg	8	2		8		15th days Wind and
12	e	Sol in Scorpio	virg.	20	3		14		Rain is expected, then
13	f	☽ n. Vindemia	libra	2	4		14		follows a sharp
14	g	☽ n.Spica virg.	libra	14	5		10		✱ ♄ ♀ frosty Air
15	a	☽ ♍ 20.	libra	26	6		6		yet seasonable: But a-
16	b	☿ ♎ 13.	scorp.	9	New		●		bout the 21st or 22th
17	c	♂ ♐ 11.	scorp.	21	5	A	30		days expect windy,
18	d	St. Luke	sagit.	4	6		6		✱ ☿ ♂ turbulent,
19	e	♀ ♍ 22.	sagit.	17	7		0		cold, stormy, and
20	f	☿ ♐ 01.	capr.	0	8		0		right winterly wea-
21	g	☽ n. cauda vult.	capr.	13	9		8		ther. But the end
22	a	☽n. Lucid vult.	capr.	27	10		28		of the month is ho-
23	b	Term begins	aqua.	11	11		50	Moons Setting.	ped will be more mo-
24	c	☽n.dex. hu. ♒	aqua.	25	1		10		de- *Moon Eclipsed*
25	d	20 past Trinity	pisces	9	1	M	10		**Crispin** ♂ ♀ ♌
26	e	☽ n.caud Ceti	pisces	24	2		28		rate weather.
27	f	☽ n.Algenib	aries	8	3		46		
28	g	S. Simon & Jude	aries	23	5		4		
29	a	☽n.aust pe. And.	taur.	8	6		22		
30	b	☽ n. Pleiades	taur.	22	Full		○		
31	c	☽ n. Aldebaran	gem.	6	5	A	26		

Saturn *sets between* 9 *and* 10 *at Night.*
Jupiter *emergeth from the Sun-beams, and riseth before him.*
Mars *sets between* 6 *and* 7 *at Night,*
Venus *and* Mercury *are near together, and set a little after the Sun.*

English Account.	Forein Account.	Roman Kalendar	Rom Saints days							
1	11	D	Burchard	grows to an over-power, it is	1	6	37	5	23
2	12	e	Walfride	like a great flood that will	2		38		22
3	13	f	Telemach	be sure to overflow. As it hath	3		40		20
4	14	G	17 p. Trin.	been seen in the States of	4		42		18
5	15	a	Hedwig	*Rome, Turky, Spain,* & others.	5		44		16
6	16	b	Gallus	Look when the World	6		46		14
7	17	c	Woolstan	hath fewest barbarous People	7		48		12
8	18	D	S. Luke	and such as commonly will	8	6	50	5	10
9	19	e	Ptolomy	not marry or generate, ex-	9		52		8
10	20	f	Wendelin	cept they know means to	10		54		6
11	21	G	18 p. Trin.	live, (as it is almost every	11		56		4
12	22	a	Cordula	where at this day, except *Tar-*	12	6	58		2
13	23	b	Roman	*tary*) there is no danger of	13	7	0	5	0
14	24	c	Salome	inundations of People; But	14	7	2	4	58
15	25	D	Crispin	when there be great shoals	15		4		56
16	26	e	Amandus	of People, which go on to po-	16		6		54
17	27	f	Victoria	pulate without foreseeing	17		8		52
18	28	G	S. Si. & Jude	means of life and sustentation	18		10		50
19	29	a	Narcissus	it is of necessity that once in	19		12		48
20	30	b	German	an age or two, they discharge	20	7	14		46
21	31	c	Wolfgang	a portion of their People	21		16	4	44
22	Nov.		All Saints	upon other Nations, which the	22		18		42
23	1	e	Om. Anim.	ancient northern People were	23		20		40
24	2	f	Theophilus	wont to do by Lot, casting	24		22		38
25	3	G	20 p. Trin.	Lots what part should seek	25		24		36
26	4	a	Petronel	their Fortunes. Also when a	26		26	4	34
27	5	b	Leonard	warlike State grows soft and	27	7	28		32
28	6	c	Florent.	effeminate, they may be sure	28		30		30
29	8	b	Claudius	of a War; for commonly	29		32		28
30	9	e	Theodore	such States are grown rich in	30		34		26
31	10	f	Martin P.	the	31	7	36	4	24

November hath xxx. Day

☾ Last Quarter the 6th day, at 4 in the afternoon.
● New Moon the 14th day, at 6 at night.
☽ First Quarter the 21th day, at 8 at night.
○ Full Moon the 28th day, at 6 at night.

1	D	All Saints	gem.	20	6	A	18	Moons rising.
2	e	**All Souls**	canc.	3	7		20	
3	f	☽ n. Castor & P.	canc.	16	8		32	
4	g	☽ n. Asellus	canc.	29	9		44	
5	a	Gunpowder Plot	leo	11	10		54	
6	b	☽ n. cor Leonis	leo	23	12		0	
7	c	☽ n. Luc. in T.L.	virgo	5	0	M	0	
8	D	12 past Trinity	virgo	17	1		4	
9	e	☽ n. vindemiat	virgo	28	2		8	
10	f	☽ n. spica Virg.	libra	10	3		12	
11	g	Sol in Sagittary	libra	22	4		15	
12	a	☽ n. lanx. Aust.	scorp.	5	5		18	
13	b	☽ n. lanx Boreal	scorp.	17	6		20	
14	c	☽ n. cor. Scorp.	sagit.	0	New		●	
15	D	3 past Trinity	sagit.	13	4	A	52	Moons setting.
16	e	♄ ♍ 23.	sagit.	26	5		52	
17	f	♃ ♎ 20.	capr.	10	7		0	
18	g	♂ ♑ 05.	capr.	24	8		14	
19	a	♀ ♑ 01.	aqua.	8	9		32	
20	b	☿ ♍ 21. D.	aqua.	22	10		50	
21	c	☽ n. Fomahaut	pisces	6	12		8	
22	D	4 past Trinity	pisces	20	0	M	8	
23	e	☽ n. Algenib.	aries	4	1		26	
24	f	☽ n. vent. Ceti	aries	18	2		43	
25	g	☽ n. prim. ✱ ♈	taur.	2	4		0	
26	a	☽ n. caud. Ariet.	taur.	16	5		16	
27	b	☽ n. Aldebaran	gem.	0	6		30	☽'s rising.
28	c	Term. Ends	gem.	14	Full		○	
29	G	Advent Sunday	gem.	28	5	A	2	
30	e	St. Andrew	canc.	11	6		8	

Misty, cloudy, and ✱ ☉ ♄ foggy weather is expected at the beginning, then follows cold windy wet and turbulent weather, and continues ✱ ♄ ♀ moist raw ☌ ☉ ☿ and foggy. **Martinmass-day.** now we may expect a sharp frosty Air, and seasonable ✱ ♄ ♀ weather, with some Mists or hoar Frosts, and continues temperate for a while. But about this time begins rough and turbulent weather, with plenty of Snow or cold Rain ✱ ♄ ☿ now more temperate weather is expected, with some misty foggy weather, yet sea- ☌ ♂ ♀ sonable.

Saturn *sets between 7 and 8 at Night.*
Jupiter *rises about 4 in the Morning.*
Mars *and* Venus *at the end of the month set very near together between 5 and 6 at Night.*
Mercury *goeth to Combustion.*

English Account.	Forein Account.	Roman Kalendar.	Rom. Saints days.								
1	11	☉	21. p. Trin.	the time of their degenera-	1	7	38	4	22
2	12	a	Cunibert	ting, and so the prey inviteth	2		39		21
3	13	b	Brice	and their decay in valour en-	3		41		19
4	14	c	Frederic	courageth a War. As for the	4		43		17
5	15	d	Leopold	weapons, it hardly falleth un-	5		45		15
6	16	e	Othmarus	der Rule and Observation:	6		46		14
7	17	f	Hugo	yet we see even they have	7		48		12
8	18	☉	22 p. Trin.	Returns, and Vicissitudes,	8		49		11
9	19	a	Elizabeth	for certain it is that Ord-	9	7	51	4	9
10	20	b	Edmond R.	nance was known in the Ci-	10		52		8
11	21	c	Oblat. V.M.	ty of the *Oxydrakes* in *India*,	11		54		6
12	22	d	Cœcilia	and was that which the *Ma-*	12		55		5
13	23	e	Clement	*cedonians* called Thunder	13	7	57		3
14	24	f	Chrysog.	and Lightning and Magick.	14	7	58	4	2
15	25	☉	23 p. Trin.	And it is said that the use of	15	8	0	4	0
16	26	a	Conradus	Ordnance hath been in *China*	16	8	1	3	59
17	27	b	Agricola	above 2000 years. The con-	17		3	3	57
18	28	c	Ruffus	ditions of weapons and their	18		4		56
19	29	d	Saturnius	improvements are; First, the	19		6		54
20	30	e	St Andrew	fetching afar off; for that out-	20		7		53
21	Dec.		Longinus	runs the danger, as it is seen	21		8	3	52
22	2	☉	Advent S.	in Ordnance and Muskets;	22		9		51
23	3	a	Cassian.	Secondly, the strength of the	23	8	10	3	50
24	4	b	Barbara	percussion, wherein Ordnance	24		11	3	49
25	5	c	Sabina	does exceed all Arietations	25		12		48
26	6	d	Nicholas	and ancient Inventions. The	26		13		47
27	7	e	Ambrose	third is the commodious use	27		14		46
28	8	f	Conc. V.M.	of them; as that they may	28		15		45
29	9	☉	2 Advent	serve in all weathers, that	29		15		45
30	10	a	Miltiades	the	30	8	16	3	44

December hath xxxi. days.

☾ Last Quarter the 6th day, at 2 in the afternoon.
● New Moon the 14th day, at 8 in the morning.
☽ First Quarter the 21th day, at 4 in the morning.
○ Full Moon the 28th day, at 9 in the morning.

1	f	☽n. canis minor	canc.	24	7	A	16		Mists come down with Rain or Snow, ☼ ☉ ♃ then follows windy weather for some days after with □ ♄ ☿ some ♂ ♄ ♀ moderate froſt; but about the 10 or 11 days high Winds with □ ♃ ♂ Rain or Snow are expected, and plenty thereof, then follows some foggy and ✶ ♃ ☿ cloſe weather, afterwards some moderate froſts, and generally temperate for the ſeaſon; yet probably the 22th and 28th days may produce ſome briſk gales of Wind; but the end of the year, is cloſe and calm.
2	g	☽n. Aſellus	leo	7	8		22		
3	a	☽n. cor leonis	leo	19	9		28	Moons Rising.	
4	b	☽n.luc.terg.le.	virgo	1	10		34		
5	c	☽n.caud. leon.	virg.	13	11		40		
6	D	2 Advent	virgo	25	12		45		
7	e	☽n. vindemiat.	libr.	6	5	M	45		
8	f	☽n. ſpica virg.	libr.	18	1		48		
9	g	☽n.lanx. Auſtr	ſcor.	0	2		52		
10	a	Sol in Capric.	ſcor.	13	3		56		
11	b	☽n.ſin.man.op.	ſcorp.	26	5		0	I	
12	c	☽n.cor ſcorpion	ſagit.	9	6		2		
13	D	3 Advent	ſagit.	22	7		0		
14	e	♄ ♑ 26.	capr.	6	New		☽		
15	f	♃ ♎ 24.	capr.	20	5	A	40	Moons Setting.	
16	g	Ember Week	aqua.	4	6		56		
17	a	♄ ♑ 28.	aqua.	18	8		16		
18	b	☿ ♒ 7.	piſces	2	9		34		
19	c	☿ ♐ 25.	piſces	17	10		52		
20	D	4 Advent	aries	1	12		10		
21	e	S. Thoma	aries	15	0	M	10		
22	f	☽n.pr.✶Ariet.	aries	28	1		24		
23	g	☽n. Atauker.	taur.	12	2		34		
24	a	☽n.Pleiades	taur.	26	3		40		
25	b	Natiy. Christ	gem.	11	4		46	I	
26	c	S. Stephen	gem.	23	5		50		
27	D	S. John	canc.	6	6		54		
28	e	Innocents	canc.	19	Full		○		
29	f	☽n. Aſellus.	leo	2	5	A	50		
30	g	☽n.auſt.in c. ♌	leo	15	6		56		
31	a	☽n.cor leonis	leo	27	8		6		

Saturn *and* Mars *set near together a little after the Sun*; Venus *a little after them.*
Jupiter *at the beginning rises before* 3 *in the morning*; *at the end he rises before* 1 *in the morning, and is south about* 6.
Mercury *riseth before the Sun.*

English Account.	Forein Account.	Roman Kalendar	Rom. Saints days.							
1	11	b	Damasus	the carriage may be light	1	8	16	3	44
2	12	c	Elfred	and manageable and the	2	8	17	3	43
3	13	d	Lucia V.	like.	3		17		43
4	14	e	Auxentius	For the conduct of the	4		18		42
5	15	f	Abraham	War; at the first Men re-	5		18		42
6	16	G	3 Advent	sted extremely upon the	6		18		42
7	17	a	Lazarus	number, they did put the	7		19		41
8	18	b	Bernardin	Wars likewise upon main	8		19		41
9	19	c	Loth	force and valour, pointing	9		19		41
10	20	d	Julian	days for pitched fields, and so	10	8	19	3	41
11	21	e	S. Thomas	trying it out upon an even	11		19	3	41
12	22	f	30. Mart.	Match, and they were more	12		19		41
13	23	G	4 Advent	ignorant in ranging and ar-	13		19		41
14	24	a	Adam & E.	raying their Battels: After	14		18		42
15	25	b	Christmas	they grew to rest upon num-	15		18		42
16	26	c	S. Stephen	ber, rather competent than	16		18		42
17	27	d	S. John	vast; they grew to advan-	17		18		42
18	28	e	Innocents	tages of Place cunning Di-	18		17		43
19	29	f	Jonathan	versions, and the like; and	19		17		43
20	30	G	David	they grew more skilful in the	20	8	16	3	44
21	31	a	Silvester	ordering of their Battels. In	21		16		44
22	Jan.	1697.	Circum.	the Youth of a state Arms	22		15		45
23	2	b	Abel	do flourish; in the middle	23		15		45
24	3	c	Enoch	Age, Learning, then both	24		14		46
25	4	d	Methusal.	for a time, afterwards Me	25	8	13	3	47
26	5	e	Simeon	chanical Arts and Merchan-	26		13		47
27	6	f	Epiphany	dize. But is is not good to	27		12		48
28	7	g	Julian	look too long upon these	28		11		49
29	8	a	Erhardus	turning wheels of Vicissitude,	29		10		50
30	9	b	Marcellus	lest we become giddy.	30	8	5	3	51
31	10	c	Agathus		31		8		51

A TABLE shewing how many Years purchase a Leaſe or Annuity (to endure for any number of Years under 33) is worth preſently, at Intereſt upon Intereſt, at Six in the Hundred; and ſhewing plainly how to diſcount any Leaſe in being, and the value of the Reverſion after any number of Years.

Years of a Leaſe.	Years.	Months.	10th parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	1
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

The Uſe and Explanation of the TABLE.

The firſt Column towards the left Hand ſheweth the Years of a Leaſe, or Annuity, and right againſt each Year, is the Years, Months, and Tenth Parts of a Months purchaſe, that ſuch a Leaſe or Annuity is worth. Example:

Suppoſe a Leaſe or Annuity to continue 12 Years, and you would know how many Years purchaſe it is worth in preſent Mony, look in the Table for Twelve Years of a Leaſe to the left Hand, and againſt the ſame you ſhall find 8, 4, 6, which ſheweth that ſuch a Leaſe is worth 8 Years, 4 Months, and 6 Tenth parts of a Months Purchaſe.

Years of a Leaſe.	Years.	Months.	10th parts.
17	10	5	8
18	10	9	3
19	11	1	9
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

AGAIN:

If you are to take or buy the Reverſion of any Leaſe or Annuity, work thus; Suppoſe the Leaſe to be Thirty Years in all, you find in the Second Table and Right Hand againſt Thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchaſe; this it were worth were it in preſent Poſſeſſion. But ſuppoſe there be a Leaſe of five Years (more or leſs) before you commence, look in the Table againſt the five Years, and there you find four Years, two Months, and 5 Tenth parts of a Months purchaſe: Take this out of the Sum againſt Thirty, which is, 13, 9, 2, the Remainder is, 9, 6, 7, which is 9 Years, 6 Months, and 7 Tenth Parts of a Month; and ſo much is the Reverſion after five Years worth, the Remainder of Thirty Years.

This is Uſeful, and very Eaſie.

SAUNDER, 1696.

The Second Part.

Containing the Eclipſes; the Suns Quarterly Ingreſſes, the Southing of the ſeven Stars for every 5th. day of this Year. With directions for finding the Riſing, Southing, and Setting of ſeveral Fixed Stars; Alſo Rules and Tables for the meaſuring of Board, Glaſs, Pavements, or other Superficial meaſure; as alſo to Meaſure Timber; And many other things worth Obſervation.

The Characters of the Twelve Signs.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquarius, ♓ Piſces.

The Characters of the Planets, with the Dragons Head and Tail, ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aſpects.

☌ Conjunction, ⚹ Sextile, □ Quartile, △ Trine, ☍ Oppoſition.

A Brief Chronology of Memorable things, to this Year, 1696

Since	The Creation of the World	5644
	Noahs Flood	3989
	The deſtruction of Sodom and Gomorrah	3598
	The deſtruction of Troy	2878
	Brute entred this Iſland	2803
	The Building of *London*	2803
	The Building of *York*	2685
	The Building of *Leiceſter*	2639

	The building of *Canterbury*	2588
	The building of *Stamford*	2559
	The building of *Rome*	2448
	The destruction of *Jerusalem* by *T. Vesp.*	1609
	England first received the Christian Faith	1516
	The Tower of *London* built	1131
	Duke *William* conquered *England*	630
	Westminster Hall was built	597
	The Bible divided into Chapters	501
	The Invention of Guns	318
	The Art of *Printing*	256
	St. *Pauls* Steeple fired by Lightning	135
	New Star in *Cassiopeia*	123
	A great Snow fell *Feb.* 4.	118
	Tilbury Camp on St. *James*'s day	108
	A *Plague* in *London*, whereof dyed 30598	92
	Gunpowder Treason, *November* 5.	91
	A great Snow, and *Smithfield* paved	81
Since	A great Plague in *London*, whereof dyed 35418	71
	The Long Parliament began, *November* 3.	56
	King *Charles* the First was Murdered	48
	Two Comets appeared in *December* and *March*	32
	The doleful Plague that followed them	31
	London was burnt, *September* 2, 3, 4, 5	30
	The last great Snow	22
	The wonderful Comet in *December*	16
	A Comet in *August*	14
	The terrible Fire in *Wapping*, *November* 19.	14
	A great Earthquake, *October* the 6th	13
	The last great Frost	12
	The Rebellion in the *West*	11
	The seven Bishops sent to the Tower, *June*	8
	The Prince of *Orange* Landed, *November* 5.	8
	King *William* went to *Ireland* with an Army, *June*	6
	The *French* Fleet most notoriously beaten by the *English* and *Dutch*, and 20 of their capital Ships destroyed,	4
	Our Most Gracious Queen *Mary* Dyed, *Dec.*	2

0

6780
16-2

Of the Eclipses this Year 1696.

THere will happen this Year, to the Inhabitants of this *Planetary Globe* whereon we live, Six *Eclipses*; But Four of them being of the *Sun*, are very small, and visible only to very Remote parts of the Earth; The other two of the *Moon*, are very great; as ordinarily can happen, and are also visible to us in *England*, those small ones of the *Sun*, happen as followeth.

The First, is *April* the 21. about a quarter past 11 in the Morning; and is about a Digit and a half Eclipsed to such Inhabitants, (if any be) as have about 200 degrees of Longitude, within the *Arctick* Circle.

The Second is *May* the 20*th*, about 10 at Night, and is greatest to the unknown part of the World, about the *Antartick Circle*, 'tis near 6 Digits.

The Third of the *Suns* Eclipses, happens *October* the 16*th*. at 2 in the Morning, and within the *Antartick* Circle also is then Eclipsed between 2 and 3 Digits.

The Fourth, and Last is *November* the 14*th*, about a quarter of an hour after 6 at Night, It is very small, not much above one Digit, at that to the most *Northern* parts of *America*, about *Baffins Bay*, *Cape-Charles*, &c.

The First of the *Moons* Eclipses, (being very great) is *May* the 6, the middle of it a little before Midnight.

The Calculation thereof take as followeth.

	bo.	*deg.*	′	″
May the 6th, at		11	51	40
The Place of the *Sun* is	♉	26	53	25
The Place of the *Moon* is	♏	26	53	25
The *Node* ascending substract	♑	27	18	25
Rest's Argument of Latitude 11		29	35	00
Moons Latitude South descending			02	10
Reduction added			0	06
Time of Reduction substract			0	11
Correct time, *May* 6*th*.	at 11 *hours*		51	29
Equation of time added			06	33
Apparent time at *London*,	at 11 *hours*		58	02
Difference of Meridians substract			4	00
Apparent time at *Leicester*,	at 11 *bo.*		54	02
Semidiameter of the *Moon*.			16	02
Semidiameter of the Earths shadow			45	24

	h	min.	sec.
Sum of the Semidiameters		60	26
Moons Latitude subſtract		2	10
Reſt's parts deficient		58	16
The Digits Eclipſed are 21		48	16
Minutes of Incidence, and half Tarrience in the Shad.		60	24
Time of Incidence, and half Tarrience in the Shad.	1	55	39
Minutes of half Tarrience in the Shadow,	0	28	17
Time of half Tarrience in the Shadow	0	54	09
Minutes of Incidence	0	32	07
Time of Incidence	01	01	30
Interval of ☌ and the greateſt Obſcurat.		0	21
The Beginning of the Eclipſe at 9 hours	9	58	44
The Beginning of Total Darkneſs, at	11	00	14
The Middle of the Eclipſe at	11	54	29
The End of Total Darkneſs at	12	48	32
The Full end of the Eclipſe at	1	50	2
The Continuance of Total Darkneſs	1	48	18
And the Total Duration of the Eclipſe.	3	51	18

A Type of the ECLIPSE.

Moons Lacitude at the beginning, *South Deſcen.*	7	51
Moons Latitude at the end, *Nor. Aſcend.*	3	30

The Second Eclipſe of the *Moon*, is alſo a very great Eclipſe, and happeneth *October* the 30th, a little before 5 of the Clock in the Morning, The Calculation follows. *October*

		′	″	
October 30th at 4 *hours*	*deg.*	44	27	manè
The Place of the *Sun* is ♏	17	46	21	
The Place of the *Moon* is ♉	17	46	21	
The *Node* aſcending ſubſtract 7 *Sig.*	17	58	34	
Reſt's Argument of Latitude 5 *Sig.*	29	47	47	
Moons Latitude, *North* Deſcend		1	03	
Reduction added		0	03	
Time of *Reduction* ſubſtract		0	05	
Correct time, *October* the 30th. at 4 *ho.*		44	22	manè
Equation of time added		13	00	
Apparent time at *London*, at 4 *ho.*		57	22	
Difference of *Meridians* ſubſtract		04	00	
Apparent time at *Leiceſter*, at 4 *ho.*		53	22	
Semidiameter of the *Moon*		16	25	
Semidiameter of the Earths ſhadow		45	24	
Summ of the Semidiameter		61	49	
Moons Latitude ſubſtract		01	03	
Reſt's parts deficient		60	46	
The *Digits* Eclipſed are 21 *h.*		21	47	
Minutes of *Incidence* and half *Tarrience*		61	48	
Time of *Incidence* and half *Tarriance*, 1 *h.*		50	47	
Minutes of half *Taurience* in the Shadow		28	58	
Time of half *Tarrience* in the Shadow		51	55	
Minutes of *Incidence*		32	50	
Time of *Incidence*		1	58	52
Interval of ☌ and greateſt Obſcuration		00	09	
The Beginning of the *Eclipſe* at 3 *ho.*		02	44	manè
The Beginning of Total Darkneſs, at 4 *h.*		01	36	
Middle of the *Eclipſe*, at 4		53	31	
The end of Total Darkneſs, at 5		45	26	
The Full end of the *Eclipſe* at 6		44	18	

	ho.	*min.*	*ſec.*
The Continuance of Total Darkneſs is	1	43	50
The Total Duration of the Eclipſe is	3	41	34

	′	″
Moons Latitude at the Beginning, *North* Deſcend	6	50
Moons Latitude at the end, *South* Aſcend	4	43

A Type of the *Moons* Eclipse, *October* the 30*th*. 1696.

In this, and the former Figure, the great *Circle* marked ACBD, representeth the Shadow of the Earth, through which the *Moon* passing, is thereby Eclipsed; The Line *E. E.* representeth the Ecliptick, which the Shadow always observeth, the Line *L. L.* the way of the *Moon* in her Orb; The utmost *Moon* to the Right sheweth the place of the *Moon* at the beginning of the Eclipse; The first within the Shadow, sheweth the *Moons* place at the beginning of Total Darkness: The Middlemost *Moon* sheweth the *Moons* place at the middle of the *Eclipse*; the utmost within the Shadow to the left hand, is the *Moons* place at the end of Total Darkness, where when the *Moon* cometh, she immediately begins to recover light on the East side of her Body, That on the left hand, and without the Shadow, is the Moons place at the end of the *Eclipse*.—These *Eclipses* of the *Moon* are both of them very Great and Remarkable, will (without question) invite the Curious in *Astronomy* to make Observation; As to the effects of *Eclipses*, those of the *Sun*, are both so small, and so remote, they can signifie little to us: But as to those of the *Moon*, 'tis said, That Eclipses of the *Moon* in *Taurus*, *Decem mediis Gradibus, Reginæ obitum & Satorum Seminumq; Sterilitatem immittit. Et in decem ultimis Gradibus, ♏ Olivas & aerem exsiccat & Febres æstuosas facit; atq; insuper inter mortales plurimum Sævit morbo, rixis, Seditionibus, cædibusque.* Thus much of *Eclipses*.

Of the Four Quarters of the Year, and first of the Spring.

THe Spring Quarter begins *March* 9th. 31 min. 1 sec. Afternoon, The *Sun* then appearing as at the entrance into *Aries*, maketh equal day and night to all (except under the *Poles*.) This Quarter is generally hot and moist; and if it prove otherwise, it brings diseases and dangerous distempers. In *March* be not too busie in purging or bleeding. In *April* you may freely bleed, or purge, if there be occasion; In *May* you may purge gently the blood or body, or open a Vein: Now forbear Wine, and such Meats as are of a hot quality.

Of Summer.

THis Quarter begins *June* 10th. at 3 hou. 13 min. 36 sec. Afternoon, the *Sun* then entring the Tropical Sign *Cancer*, maketh the longest day and shortest night to all on this side the Equator. In *June* abstain from such Meats as ingender raw, crude and moist humours. in *July* beware of bleeding and purging. In this and the next Month drink not much Wine; for it now dryes the Stomach and Liver, too much increasing Choler.

Of Autumn.

THis Quarter begins the 12th of *September*, 18 min. 29 sec. after 6 of the Clock in the morning, again making equal day and night. In *September* and *October* you may bleed if there be occasion; but in *November* Melancholly increaseth, and blood decreaseth: Beware now of taking cold.

Of Winter.

WInter Quarter begins this Year *December* 10th. at 6 hours, 31 min. 52 sec. after Noon: Now is the shortest day and longest night. The beginning of this Quarter is not for Physick; but to drink Wine now and then, and to use Spices in your Diet is very good.

To find the Rising, Southing and Setting, of several fixed Stars hereafter mentioned.

IN the Tables following you have first the seven Stars Southing for every fifth day: in the second Table is set the difference betwixt the Southing of those Stars therein named, and the seven Stars, which being added to the time of the seven Stars Southing,

giveth theirs. In the same Table is also set their semidiurnal Arches thereby to find the rising and setting of the said Stars. Suppose it is required to know what time the great Dog-star called *Syrius* will be South the 11th. of *February*? I then find the Seven Stars South at 5 ho. 10 min. to which I add 3 ho. 2 min. the difference annexed to the great Dog-Star, and it makes 8 ho. 12 min. being the time of its Southing the said 11th. of *February*. If to the Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its setting at 12 ho. 43 min. but if you substract the Semi-diurnal Arch from the Southing it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several magnitudes, The biggest and brightest Stars are called Stars of the first Magnitude. Those one size inferiour in light, and bigness are called Stars of the second Magnitude, &c. Now for the better knowing the Stars hereafter mentioned, Note, that the great Dog-star, Lions Heart, Virgins Spike, and the bright star of *Lyra*, are accounted stars of the first magnitude, so are also *Aldebaran* and *Arcturus*, but they are Red stars, much of the colour of *Mars*, all the rest in the Table are of the second magnitude, except the Northern and Southern *Asses*, which are small Stars being of the fourth magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1696.

Moneths	Dayes of the Moneth. 1		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32	6	A 12
February	5	A 49	5	29	5	10	4	51	4	32	4	14
March	4	A 0	3	41	3	23	3	4	2	46	2	28
April	2	A 7	1	48	1	30	1	11	0	52	0	32
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53	10	M 33
June	10	M 8	9	47	9	26	9	6	8	45	8	25
July	8	M 5	7	45	7	24	7	4	6	45	6	25
August	6	M 3	5	45	5	26	5	8	4	49	4	31
September	4	M 10	3	52	3	34	3	17	3	0	2	41
October	2	M 22	2	3	1	44	1	25	1	5	0	46
November	0	M 22	0	2	11	A 39	11	A 16	10	A 54	10	32
December	10	A 11	9	A 49	9	26	9	4	8	41	8	20

A Table

A Table shewing the difference in hours and minutes between the coming to South of several fixed stars, and the seven stars, as also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	Diff. South.	Semid. Arches	Names of the Stars.	Diff. South.	Semid. Arches
	h. m.	h. m.		h. m.	h. m.
Aldebaran B.eye	0 49	7 28	Lions heart, Basil.	6 23	7 13
2d. in Orions Girdle	1 51	5 54	Virgins Spike	9 40	5 9
Gr. Dog. Syrius	3 2	4 31	Arcturus	10 32	8 0
Castor 1st. head ♊	3 46	9 47	South ballance	11 54	4 40
Lit. Dog. Procyon	3 54	6 32	North ballance	11 31	5 16
Pollux, 2d. head ♊	3 52	9 4	Northern Crown	11 52	8 55
Northern Ass.	4 56	8 12	bright ✶ Lyræ	14 57	sets not
Southern Ass.	4 58	9 49	bright ✶ Vulturis	16 6	6 42

Here followeth some few Rules, and Tables, for the measuration of Superficies and Solids.

FOr the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure, as the Square, Long-square, or Parellelogram, Triangle, Circle, parts of the Circle, *&c.* examples of all which do here follow.

I. *How to measure a Square.*

Let there be a square floor, or pavement, the sides whereof are each of them 5 feet 6 inches, and 'tis required to know how many square, or superficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches; then divide 4356 by 144 (the square inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See the Margin.

66
66
396
396
4356
4356
144
30
432
36

To

II. *To measure the Long-square or Parallelogram.*

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Measure a Long Superficies, which is broader at one end than at the other.*

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies:

72
42
144
288
3024
144
288 (21
144

IV. *How to Measure Triangles.*

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572: Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All *Trapezias*, or Figures with four unequal sides; also Multangular, or many sided irregular Figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the content of such irregular figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. *How to measure Circles, and parts of Circles.*

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore the

the Diameter being given to find the circumference, you must multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, suppose the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whose Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22. and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter 19 $\frac{2}{22}$ the half whereof is $9\frac{12}{22}$, by which multiplying 30, the product will be $286\frac{4}{11}$ which is the superficial content of such a Circle; or,

By the Diameter to find the Area of the circle. First, square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle.

Let the Diameter be as above $19\frac{1}{21}$ the square whereof is $364\frac{16}{21}$ this multiplied by 11 produceth $4009\frac{5}{21}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the superficial content of such a circle.

To measure the superficial content of half the circle, the quarter of a circle, or of any other section of a circle, more or less, having the semidiameter given,

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

Of the Mensuration of Solids.

AS Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measures consisteth of three dimensions, namely, length, breadth and thickness.

To measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multiplyed,

plyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other ſolid matter) whoſe breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many ſolid feet are contained therein. Firſt, multiply the breadth 18 by the depth 13, the product is 234, being the ſuperficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the ſolid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one ſolid foot) and the quotient will be 19, and 396 inches remaining, which is 19 ſolid feet, and almoſt one quarter of a foot, and ſo much is the ſolid content of ſuch a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whoſe compaſs is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the ſolid content thereof. Firſt, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, ſo ſhall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying $\frac{1}{3}$ the circumference by $\frac{1}{4}$ the Diameter; or by (ſquaring, or) multiplying the Diameter in it ſelf, and multiplying that ſquare by 11, and dividing the product by 14, the ſuperficial content of the end of ſuch a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and $39\frac{3}{11}$ inch. remaining, which is the ſolid content of ſuch a piece of Timber. But had this piece of Timber been meaſured by that egregiouſly falſe way of taking $\frac{1}{4}$ part of the Girt for the ſide of the ſquare equal, it would have been found to be but 31 feet and $\frac{1}{4}$ of a foot, which is above $\frac{1}{8}$ part leſs than the truth, it being 39 feet, & above $\frac{3}{4}$.

In behalf of that erroneous way many do plead, that in round Timber there is great loſs in chipping to bring it near a ſquare, therefore that way may be allowed; but this is very unequal: in great Timber there being little loſs, in ſmall Timber much, let therefore the quality be conſidered, rather than make ſuch unequal amends by a falſe quantity.

Of the Meaſuration of Tapering Timber, either round or ſquared, ſuch as Fruſtums of Cones and Pyramids.

FIrſt find the ſuperficial Area of each end of the piece, and multiplie the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed in it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be $731\frac{1}{2}$. Lastly, multiply $731\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44; hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, if 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone; now the superficial

content

content of the Base of this Cone, (being 346½ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 26 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot	
Inch.	Fe.	Inc.	10ths	Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	2

A Table

A Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com. Inch.	len. of a foot Inch.	100 p	Com. Inch.	len. of a foot Inch.	100 p.	Com. Inch.	len. of a foot Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

Ad-

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THE *Author of this* Almanack *being lately Removed from* Ouston *in the County of* Leicester, *to* Leesthorp *near* Melton Mowbray *in the said County, hath thought fit to give Notice, That*

IF *any Gentleman or other Person would have his Land surveyed, or any Building or Edifice measured, either for* Bricklayers, Carpenters, Masons, Plaisterers, &c. *The Author of this Almanack will perform the same, either for Master or Workmen: And if any Person would have about his House or Garden, any Sun-Dyals; either Direct, Declining, Inclining, Reclining, Concave, Convex or Reflective. He will make or prepare for them such as they shall desire.*

From *Leesthorp near Melton Mowbray in* County of *Leicester, Sept.* 25. 1695.